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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,608	12/24/2003	CHIH-FENG SUNG	10217-US-PA	1607
31561 7590 03/12/2007 JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			EXAMINER TRAN, THUY V	
			ART UNIT 2821	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/12/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/707,608

Applicant(s)

SUNG, CHIH-FENG

Examiner

Thuy V. Tran

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on amendment filed 9/1/06 & suppl. 12/5/06.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 12-17 and 21-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 12-17 and 21-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 10/27/06.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

This Office Action is responsive to the Applicant's amendment submitted on 09/01/2006 and supplemental amendment submitted on 12/05/2006. In virtue of this supplemental amendment:

- Claims 1-11 and 18-20 are canceled;
- Claims 23-24 are newly added; and thus,
- Claims 12-17 and 21-24 are now presented in the instant application.

#### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless –  
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.*

3. Claims 12-17 and 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Asano et al. (Pub. No.: US 2002/0190924 A1).

With respect to claim 12, Asano et al. discloses, in Fig. 1, an organic light-emitting display comprising (1) a pixel array [ixi+2] having a plurality of data lines [Y(i), Y(i+1), Y(i+2)], a plurality of scan lines [X(i), X(i+1), X(i+2)], and a plurality of first and second pixels (whether pixels in row as the first and in column as the second, or vice-versa; see Fig.1), wherein each of the first and second pixels is electrically connected to one of the scan lines and one of the data lines correspondingly (see pixel [11] with connections to the scan line X(i) and the data line [Y(i)]), (2) a first external power line [14], dividing into a plurality of first internal power lines

Art Unit: 2821

(connected to ELii; see Fig. 1), wherein each first internal power line is electrically connected to at least two of the first pixels (see Fig. 1), (3) a second external power line [15], dividing into a plurality of second internal power lines, wherein each second internal power line is electrically connected to at least two of the second pixels, and the first internal power lines and the second internal power lines are separated, and (4) a power source [Vo] electrically connected to the first and second external power lines (see Fig. 1).

With respect to claim 13, Asano et al. discloses, in Fig. 1, that each of the first and second pixels comprises (i) a switching transistor [TRiia] having a first drain electrode, a first gate electrode, and a first source electrode, wherein the first drain electrode is coupled to one of the data lines [Yi, Y(i+1), Y(i+2)], and the first gate electrode is coupled to one of the scan lines [Xi, X(i+1), X(i+2)], (ii) a driving transistor [TRiib] having a second drain electrode, a second gate electrode, and a second source electrode, wherein the second gate electrode is coupled to the first source electrode, and the second source electrode is grounded (connected to the common ground line [15]; see Fig. 1), (iii) a storage capacitor [Cii], having a first terminal and a second terminal, wherein the first terminal is coupled to the first source electrode and the second gate electrode, and the second terminal is grounded (connected to the common ground line [15]; see Fig. 1) and coupled to the second source electrode, and (iv) a light-emitting device [ELii], having an anode and a cathode, wherein the anode is coupled to one of the first and second internal power lines (see Fig. 1) and the cathode is coupled to the second drain electrode.

With respect to claim 14, Asano et al. discloses, in Fig. 1, that the switching transistor [TRiia] comprises a thin film transistor (see paragraph [0030], lines 1-2).

With respect to claim 15, Asano et al. discloses, in Fig. 1, that the driving transistor [TRiib] comprises a thin film transistor (see paragraph [0030], lines 1-2).

With respect to claim 16, Asano et al. discloses, in Fig. 1, that the light-emitting device comprises an organic light-emitting diode [ELii] (see paragraph [0026], line 1).

With respect to claim 17, Asano et al. discloses, in Fig. 2, that the light-emitting device [ELii] comprises a polymer light-emitting diode (since it contains a transparent conductive layer, at least, which is inherently made of polymer (transparent layer)).

With respect to claim 21, Asano et al. discloses, in Fig. 1, an organic light-emitting display comprising (1) a pixel array having a plurality of data lines [Y(i), Y(i+1), Y(i+2)], a plurality of scan lines [X(i), X(i+1), X(i+2)] and a plurality of first and second pixels arranged in a matrix of columns and rows (see Fig. 1), wherein each of the first and second pixels is electrically connected to one of the scan lines and one of the data lines correspondingly, (2) a first external power line [14], dividing into a plurality of first internal power lines (connections to it within the pixels; see Fig. 1), wherein each first internal power lines is electrically connected to the first pixels in the same column or in the same row, (3) a second external power line [15], dividing into a plurality of second internal power lines (connections to it within the pixels; see Fig. 1), wherein each second internal power lines is electrically connected to the second pixels in the same column or in the same row, wherein the first internal power lines and the second internal power lines are separated (see Fig. 1), and (4) a power source [Vo or ground voltage source of [15]] electrically connected to the first and second external power lines [14, 15].

With respect to claim 22, Asano et al. discloses, in Fig. 1, that that each of the first and second pixels comprises (i) a switching transistor [TRiia] having a first drain electrode, a first

Art Unit: 2821

gate electrode, and a first source electrode, wherein the first drain electrode is coupled to one of the data lines  $[Y_i, Y(i+1), Y(i+2)]$ , and the first gate electrode is coupled to one of the scan lines  $[X_i, X(i+1), X(i+2)]$ , (ii) a driving transistor  $[TR_{iib}]$  having a second drain electrode, a second gate electrode, and a second source electrode, wherein the second gate electrode is coupled to the first source electrode, and the second source electrode is grounded (connected to the common ground line [15]; see Fig. 1), (iii) a storage capacitor  $[C_{ii}]$ , having a first terminal and a second terminal, wherein the first terminal is coupled to the first source electrode and the second gate electrode, and the second terminal is grounded (connected to the common ground line [15]; see Fig. 1) and coupled to the second source electrode, and (iv) a light-emitting device  $[EL_{ii}]$ , having an anode and a cathode, wherein the anode is coupled to one of the first and second internal power lines (see Fig. 1) and the cathode is coupled to the second drain electrode.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

*(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.*

5. Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asano et al. (Pub. No.: US 2002/0190924 A1).

With respect to claims 23-24, Asano et al. discloses all of the claimed limitations, as expressly recited in claims 12 and 21, except that the first and second external power lines are disposed at two opposite sides of the pixel array. However, this difference is not of patentable merits since it is believed that such an arrangement does not affect the operation capability of the

Art Unit: 2821

display device. Specifically, in either opposite or same side position, the operation of the display is still the same, since these two external power lines are neither connected to the signal/data lines nor the scanning lines. Therefore, to configure the two external power lines at two opposite sides of the pixel array for convenience in relocating the related components/parts of the display would have been deemed obvious to a person skilled in the art

***Remarks and conclusion***

6. Applicant's arguments filed on 09/01/2006 have been fully considered but they are not persuasive.

In response to Applicant's arguments on the rejection of claim 12 at pages 7-9 stating that the common power line [14] and the common ground line [15] are both connected to the same pixel circuit [11], and that the first and second external power lines are electrically (connected) to the same power source, it is noted that such features are not recited in the rejected claim(s).

Applicant is noted that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response to Applicant's arguments on the rejection of claim 21 at pages 10-11 stating that the common power line [14] and the common ground line [15] are connected to different sources, it is noted that such features are not recited in the rejected claim(s). Applicant is noted that although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusively, claims 12-17 and 21-22 remain rejected under 35 U.S.C. 102(e) as being anticipated by Asano et al. since Asano et al. clearly discloses all of the claimed limitations recited therein (see "Claim Rejections – 35 USC § 102" set forth above for details), and claims 23-24 are rejected as being unpatentable over the teaching of Asano et al. (see "Claim Rejections – 35 USC § 103" set forth above for details).

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### ***Inquiry***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -4:00 PM).

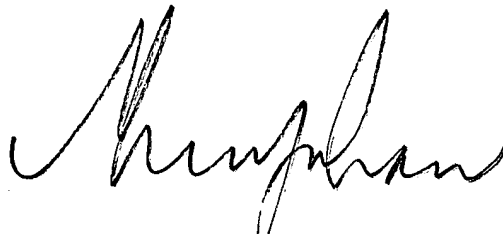
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Owens Douglas can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

03/05/2007

A handwritten signature in black ink, appearing to read 'Thuy V. Tran', is positioned above the printed name and title.

**THUY V. TRAN**  
**PRIMARY EXAMINER**